

=> FILE REG

FILE 'REGISTRY' ENTERED AT 16:53:35 ON 25 JUN 2009
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
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=> DISPLAY HISTORY FULL L1-

FILE 'LREGISTRY' ENTERED AT 14:49:09 ON 25 JUN 2009
E COPPER PHTHALOCYANINE/CN
L2 1 SEA "COPPER PHTHALOCYANINE"/CN
D RN
L3 STR 147-14-8

FILE 'REGISTRY' ENTERED AT 14:51:04 ON 25 JUN 2009
50 SEA SSS SAM L3
L4 9400 SEA SSS FUL L3
L5 SAV L5 JOH373/A

FILE 'LREGISTRY' ENTERED AT 14:51:50 ON 25 JUN 2009
L6 STR L3

FILE 'REGISTRY' ENTERED AT 14:56:20 ON 25 JUN 2009
L7 4 SEA SUB=L5 SSS SAM L6

FILE 'LREGISTRY' ENTERED AT 14:57:08 ON 25 JUN 2009
L8 STR L3

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FILE 'REGISTRY' ENTERED AT 15:00:55 ON 25 JUN 2009
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L12 STR L10
L13 STR L12
L14 STR L12

FILE 'REGISTRY' ENTERED AT 15:04:45 ON 25 JUN 2009
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L16 15 SEA SUB=L5 SSS FUL (L13 OR L14)

SAV L16 JOH373A/A

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L17 STR L3
L18 STR L17

FILE 'REGISTRY' ENTERED AT 15:07:51 ON 25 JUN 2009

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L20 57 SEA SUB=L5 SSS FUL (L17 OR L18)
SAV L20 JOH373B/A

FILE 'ZCA' ENTERED AT 15:09:32 ON 25 JUN 2009

L21 11 SEA L16
L22 42 SEA L20

FILE 'HCA' ENTERED AT 15:09:48 ON 25 JUN 2009

L23 11 SEA L16
L24 42 SEA L20
L25 9 SEA 1808-2002/PY,PRY,AY AND L23
L26 41 SEA 1808-2002/PY,PRY,AY AND L24

FILE 'LCA' ENTERED AT 15:10:34 ON 25 JUN 2009

L27 243 SEA ((PHOTO OR LIGHT OR PHOTOLY?)(2A)(RX# OR RXN# OR
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CURAB? OR CROSSLINK? OR CROSS(W)LINK? OR CAT# OR
CATALY?))/BI,AB
L28 268 SEA ((ULTRAVIOLET? OR ULTRA(W)VIOLET? OR UV# OR SUV OR
LUV OR RADIA? OR IRRADIA? OR EMANAT? OR EMIT? OR EMISS?
OR LASER?)(2A)(RX# OR RXN# OR REACT? OR REACT? OR POLYM?
OR CURE# OR CURING# OR CURAB? OR CAT# OR CATALY? OR
CROSS(W)LINK? OR CROSSLINK?))/BI,AB
L29 344 SEA (PHOTORX## OR PHOTOREACT? OR PHOTSENS? OR PHOTOPOLYM
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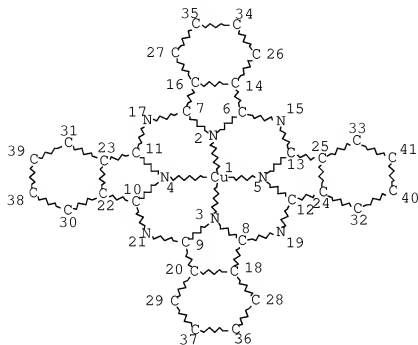
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L30 104409 SEA (L27 OR L28 OR L29)(3A)(POLYM? OR COPOLYM? OR
TERPOLYM? OR RESIN?)
L31 116960 SEA RESIST OR RESISTS OR PHOTORESIST?
L32 135823 SEA MASK? OR PHOTOMASK?
L33 3 SEA L26 AND (L30 OR L31 OR L32)
L34 245056 SEA SOLDER? OR BRAZ? OR WELD?
L35 1 SEA L26 AND L34
L36 4 SEA L26 AND (L27 OR L28 OR L29)
L37 1182580 SEA (MIXT# OR MIXTURE? OR BLEND? OR ADMIX? OR COMMIX? OR
IMMIX? OR INTERMIX? OR COMPOSIT? OR COMP# OR COMPSN# OR
FORMULAT? OR INTERSPER?)/TI

L38 5 SEA L26 AND L37
 L39 7 SEA L33 OR L35 OR L36 OR L38
 L40 7 SEA 1808-2002/PY,PRY,AY AND L39
 L41 34 SEA L24 NOT (L25 OR L40)
 L42 33 SEA 1808-2002/PY,PRY,AY AND L41
 SAV L42 JOH373C/A

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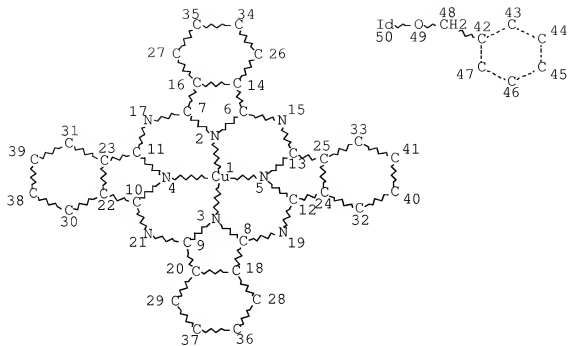
=> D L16 QUE STAT
 L3 STR



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 DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:
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 NUMBER OF NODES IS 41

STEREO ATTRIBUTES: NONE
 L5 9400 SEA FILE=REGISTRY SSS FUL L3
 L13 STR



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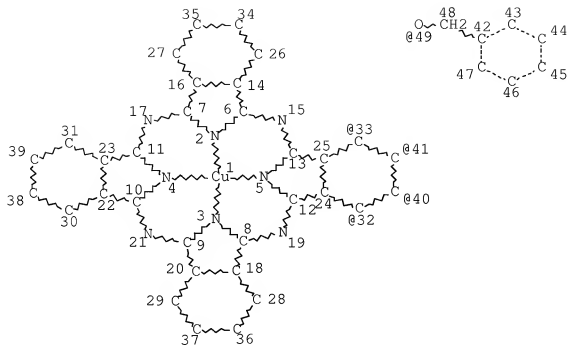
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GRAPH ATTRIBUTES:

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 NUMBER OF NODES IS 50

STEREO ATTRIBUTES: NONE

L14 STR



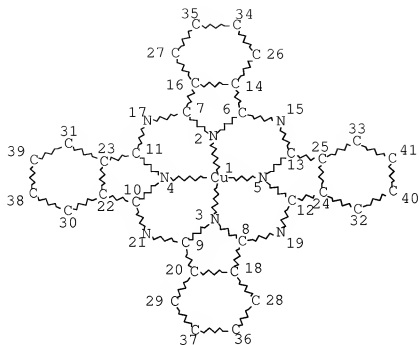
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 DEFAULT MLEVEL IS ATOM
 DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:
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 NUMBER OF NODES IS 49

STEREO ATTRIBUTES: NONE
 L16 15 SEA FILE=REGISTRY SUB=L5 SSS FUL (L13 OR L14)

100.0% PROCESSED 9400 ITERATIONS 15 ANSWERS
 SEARCH TIME: 00.00.01

=> D L20 QUE STAT
 L3 STR



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DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:

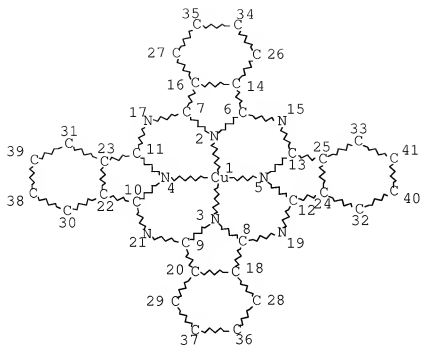
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STEREO ATTRIBUTES: NONE

L5 9400 SEA FILE=REGISTRY SSS FUL L3

L17 STR



NODE ATTRIBUTES:

DEFAULT MLEVEL IS ATOM

DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:

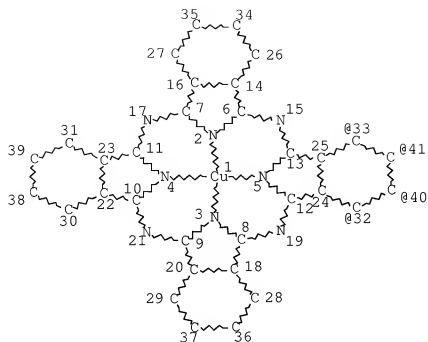
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STEREO ATTRIBUTES: NONE

L18

STR



OH @46

VPA 46-33/41/40/32 U

NODE ATTRIBUTES:

DEFAULT MLEVEL IS ATOM

DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:

RING(S) ARE ISOLATED OR EMBEDDED

NUMBER OF NODES IS 42

STEREO ATTRIBUTES: NONE

L20 57 SEA FILE=REGISTRY SUB=L5 SSS FUL (L17 OR L18)

100.0% PROCESSED 9400 ITERATIONS

57 ANSWERS

SEARCH TIME: 00.00.01

=> FILE HCA

FILE 'HCA' ENTERED AT 16:54:49 ON 25 JUN 2009

USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.

PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

(FORMULA 2)

=> D L25 1-9 BIB ABS HITSTR HITRN RE

L25 ANSWER 1 OF 9 HCA COPYRIGHT 2009 ACS on STN
AN 141:44857 HCA Full-text
TI Photosensitive resin composition comprising halogen-free colorant
IN Oka, Hidetaka; Adam, Jean-Marie
PA Ciba Specialty Chemicals Holding Inc., Switz.
SO PCT Int. Appl., 21 pp.
CODEN: PIXXD2

DT Patent
LA English

FAN.CNT 1

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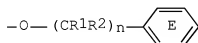
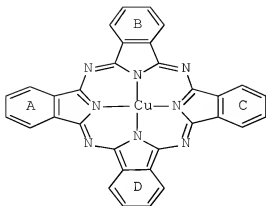
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GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP,
KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW,
MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE,
SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC,
VN, YU, ZA, ZM, ZW
RW: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM,
AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE,
DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO,
SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML,
MR, NE, SN, TD, TG

CA 2507471	A1	20040610	CA 2003-2507471	200311 19
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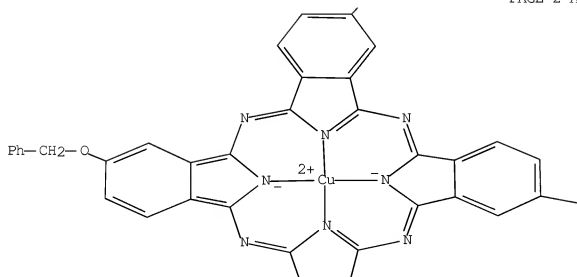
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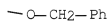
I

AB The present invention relates to a photosensitive resin compn. for solder resists comprising as a component (A) a green colorant of the formula I (rings A, B, C and D are substituted by hydroxy or by moiety; R, R₂ = H, C1-4-alkyl; n = 0-3; ring E = unsubstituted or substituted by C1-6-alkyl, C1-6-alkoxy, hydroxy, NHCOR₃, NHSO₂, R₄ or SO₂NHR₅; R₃, R₄, R₅ = C1-4-alkyl; Ph); as a component (B) an alkali sol. oligomer or polymer reactive or unreactive; as a component (C) a polymerizable monomer; as a component (D) a photoinitiator; as a component (E) an epoxy compd.; and also, if desired, as a component (F) further additives. The photosensitive compn. can be used as solder resist, etching resist or plating resist in the manuf. of printed circuit boards. The inventive solder resist comprising a single green pigment that maintains qualities required as a green coloring material, such as clear hue, good weather- and heat resistance and that is satisfactory at the same time in the points of environmental pollution, has not been found yet in the present state of the art.

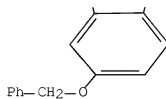
IT 227101-11-3 290821-67-9 667865-45-4
(photosensitive resin compn. comprising halogen-free colorant)
RN 227101-11-3 HCA
CN Copper, [2,9,16,23-tetrakis(phenylmethoxy)-29H,31H-phthalocyaninato(2-)-κN29,κN30,κN31,κN32]-, (SP-4-1)- (9CI) (CA INDEX NAME)



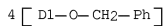
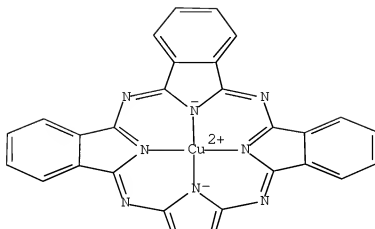
PAGE 2-B



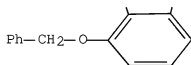
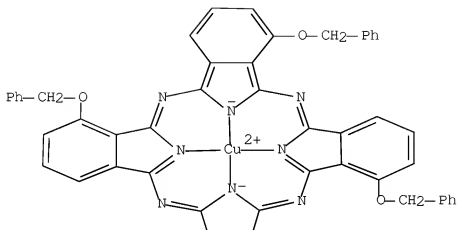
PAGE 3-A



RN 290821-67-9 HCA
CN Copper, [C,C,C,C-tetrakis(phenylmethoxy)-29H,31H-phthalocyaninato(2-
)- $\kappa\text{N}29,\kappa\text{N}30,\kappa\text{N}31,\kappa\text{N}32$]- (9CI) (CA INDEX
NAME)



RN 667865-45-4 HCA
 CN Copper, [1,8,15,22-tetrakis(phenylmethoxy)-29H,31H-phthalocyaninato(2-)-κN29,κN30,κN31,κN32]-, (SP-4-1)- (9CI) (CA INDEX NAME)



IT 227101-11-3 290821-67-9 667865-45-4
(photosensitive resin compn. comprising halogen-free colorant)

RE

- (1) Anon; US 20020136986 A1
- (2) Anon; US 5009982 A HCA
- (3) Anon; US 5789137 A HCA

L25 ANSWER 2 OF 9 HCA COPYRIGHT 2009 ACS on STN

AN 140:243677 HCA [Full-text](#)

TI Liquid crystal display and color filter with improved transparency for green light

IN De Keyzer, Gerardus; Yousaf, Taher; Ekkundi, Vadiraj Subbanna; Mudaliar, Chandrasekhar Dayal

PA Ciba Specialty Chemicals Holdings Inc., Switz.

SO PCT Int. Appl., 22 pp.

CODEN: PIXXD2

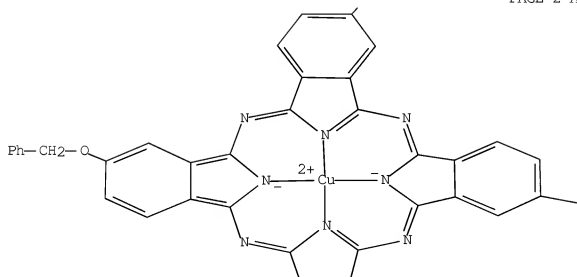
DT Patent

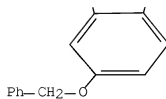
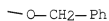
LA English

FAN.CNT 1

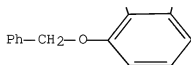
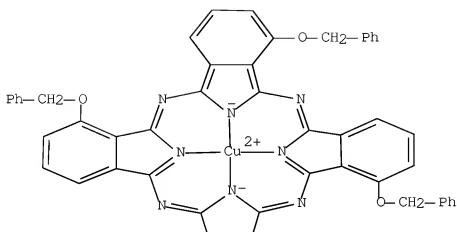
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	RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
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PRAI	IN 2002-MA600	A	20020814	<--	
	IN 2002-CH600	A	20020814	<--	
	WO 2003-EP8654	W	20030805		
OS	MARPAT 140:243677				
AB	The invention relates to novel liq. crystal displays comprising a broad backlight emission around 530 nm and a green color filter contg. a phthalocyanine colorant, most adequately tetrahydroxy- or tetraalkoxy-substituted but lacking solubilizing groups. The purpose of the invention is to provide a liq. crystal display having better transmittance for green light and efficient absorption for red light (particularly from 600-620 nm), with a steep slope between green and red as well as good light stability.				
IT	227101-11-3P 667865-45-4P (liq. crystal display and color filter with improved transparency for green light)				
RN	227101-11-3 HCA				
CN	Copper, [2,9,16,23-tetrakis(phenylmethoxy)-29H,31H-phthalocyaninato(2-)-κN29,κN30,κN31,κN32]-, (SP-4-1)-(9CI) (CA INDEX NAME)				





RN 667865-45-4 HCA
 CN Copper, [1,8,15,22-tetrakis(phenylmethoxy)-29H,31H-
 phthalocyaninato(2-)-κN29,κN30,κN31,κN32]-,
 (SP-4-1)- (9CI) (CA INDEX NAME)



IT 227101-11-3P 667865-45-4P
(liq. crystal display and color filter with improved transparency
for green light)

RE

- (1) Anon; WO 0204563 A1 HCA
- (2) Anon; EP 0519423 A2 HCA
- (3) Anon; EP 0531106 A1 CAPLUS
- (4) Anon; EP 0896327 A1 HCA
- (5) Anon; EP 0965874 A2 HCA
- (6) Anon; EP 1168048 A1 CAPLUS
- (7) Anon; WO 9526381 A1 HCA

L25 ANSWER 3 OF 9 HCA COPYRIGHT 2009 ACS on STN

AN 133:209279 HCA Full-text

TI Phthalocyanine dyes for ink jet recording inks with good storage
 stability and resistance to light and water
 IN Matsuzaki, Yoriaki; Ohkuma, Tadashi; Ohi, Toru
 PA Mitsui Chemical Industry Co., Ltd., Japan
 SO Jpn. Kokai Tokkyo Koho, 14 pp.

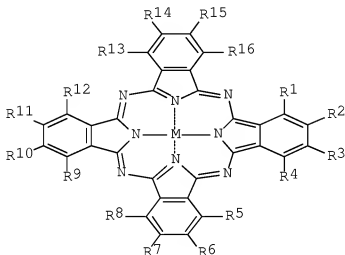
CODEN: JKXXAF

DT Patent
 LA Japanese

FAN.CNT 1

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PI	JP 2000239584	A	20000905	JP 1999-44512	199902 23

PRAI JP 1999-44512 19990223 <--
 OS MARPAT 133:209279
 GI



I

AB The inks contain phthalocyanine-type dyes I (R1-16 = H, halogen, alkyl, alkoxy, aryl, aryloxy, carboxylic acid ester, amide provided that R1-16 never be all H or halogen; M = 2 H atoms, divalent metals, substituted metals with 3-4 valency or their oxides). Thus, heating nitrobenzene 30 with urea 10.4 to 130°, combining with 5-(N,N-

diisopentylcarbamoyl)phthalic anhydride 4.1, ammonium molybdate tetrahydrate 0.3 and cupric chloride dihydrate 0.7 parts, and heating at 180° for 5 h gave a dye 10 parts of which was mixed with a polyester binder 100, MEK 150, THF 150 and water 600 parts, filtered, devolatilized and adjusted to 20% solid concn. with water to give an ink dispersion contg. particles with diam. 0.2 μm and good printability.

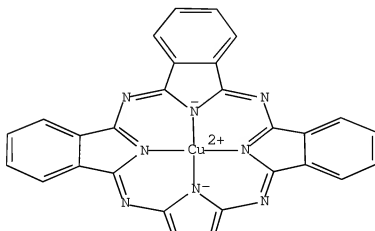
IT 290821-67-9

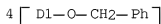
(dyes; manuf. of phthalocyanine dyes for ink jet recording inks with good storage stability and resistance to light and water)

RN 290821-67-9 HCA

CN Copper, [C,C,C,C-tetrakis(phenylmethoxy)-29H,31H-phthalocyaninato(2-)- $\kappa\text{N}29,\kappa\text{N}30,\kappa\text{N}31,\kappa\text{N}32$]- (9CI) (CA INDEX NAME)

PAGE 1-A





IT 290821-67-9

(dyes; manuf. of phthalocyanine dyes for ink jet recording inks
with good storage stability and resistance to light and water)

L25 ANSWER 4 OF 9 HCA COPYRIGHT 2009 ACS on STN

AN 133:10980 HCA Full-text

TI Electrophotographic toner containing near-IR absorber

IN Matsuzaki, Yoriaki; Ohi, Toru

PA Mitsui Chemicals Inc., Japan; Yamamoto Chemicals Inc.

SO Jpn. Kokai Tokkyo Koho, 10 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

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199811
06

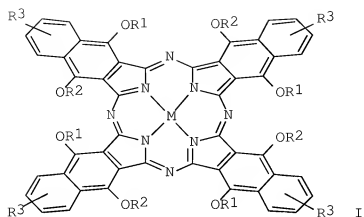
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PRAI JP 1998-316467

19981106 <--

OS MARPAT 133:10980

GI



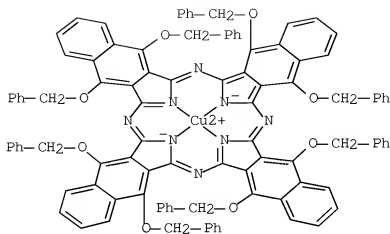
AB The electrophotog. toner contains a near-IR absorber represented by I (R1,2 = alkyl; R3 = H, nitro; R4,5 = H, alkyl, aryl, etc.; M = 2 H atoms, divalent metal atom, tri- or tetravalent metal, oxymetal). The toner is used for a flash fixing, and the near-IR absorber provides excellent optical-to-thermal conversion efficiency.

IT 270583-07-8 270583-08-9

(electrophotog. toner contg. near-IR absorber)

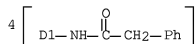
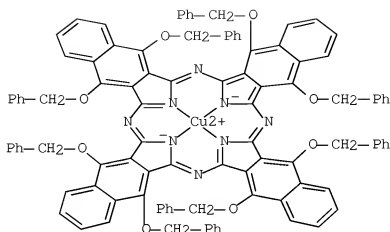
RN 270583-07-8 HCA

CN Copper, [C,C,C,1-tetranitro-5,9,14,18,23,27,32,36-octakis(phenylmethoxy)-37H,39H-tetranaphtho[2,3-b:2',3'-g:2'',3''-1:2'',3'''-q]porphyrazinato(2-)-κN37,κN38,κN39,κN40]- (9CI) (CA INDEX NAME)



4 [D1-NO2]

RN 270583-08-9 HCA
 CN Copper, [[N,N',N'',N'''-[5,9,14,18,23,27,32,36-octakis(phenylmethoxy)-37H,39H-tetranaphtho[2,3-b:2',3'-g:2'',3''-1:2''',3'''-q]porphyrazine-C,C,C,1-tetrayl-κN37,κN38,κN39,κN40]tetrakis[benzeneacetamidato]](2-)]- (9CI) (CA INDEX NAME)



IT 270583-07-8 270583-08-9
(electrophotog. toner contg. near-IR absorber)

L25 ANSWER 5 OF 9 HCA COPYRIGHT 2009 ACS on STN
 AN 131:52320 HCA [Full-text](#)
 TI Mesomorphism of tetra-4-alkoxy- and tetra-4-aryloxy-substituted
 phthalocyanines of copper
 AU Bykova, V. V.; Usol'tseva, N. V.; Anan'eva, G. A.; Shaposhnikov, G.
 P.; Maizlish, V. E.
 CS Ivanov. Gos. Univ., Russia
 SO Izvestiya Akademii Nauk, Seriya Fizicheskaya (1998),
 62(8), 1647-1651
 CODEN: IRAFEO; ISSN: 1026-3489
 PB Nauka
 DT Journal
 LA Russian

AB The synthesis and thermotropic and lyotropic mesomorphism of copper complexes of alkoxy- and aryloxy-substituted phthalocyanines were investigated. In org. solvents (chloroform and dimethylformamide) [tetrakis[4-(4-phenylazo)phenoxy]phthalocyaninato]copper and [tetrakis(4-benzyloxy)phthalocyaninato]copper form at room temp. lyomesophase textures of chromonic type [schlieren (N-phase) and spheroidal (M-phase)], although thermotropic mesomorphism was not obsd.

IT 227101-11-3P
(prepn. and lyotropic liq. crystal properties with DMF)

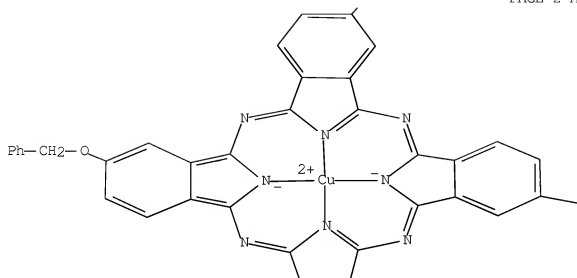
RN 227101-11-3 HCA

CN Copper, [2,9,16,23-tetrakis(phenylmethoxy)-29H,31H-phthalocyaninato(2-)-κN29,κN30,κN31,κN32]-, (SP-4-1)- (9CI) (CA INDEX NAME)

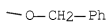
PAGE 1-A

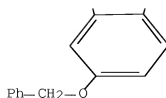


PAGE 2-A



PAGE 2-B





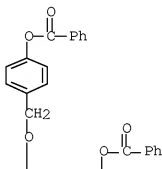
IT 227101-11-3P
 (prepn. and lyotropic liq. crystal properties with DMF)

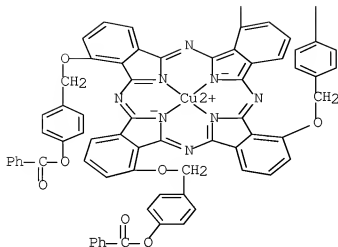
L25 ANSWER 6 OF 9 HCA COPYRIGHT 2009 ACS on STN
 AN 126:48352 HCA Full-text
 OREF 126:9527a,9530a
 TI Dyes for color filters, and photosensitive resin compositions
 containing them
 IN Itoh, Hisato; Karasawa, Akio; Sugimoto, Kenichi
 PA Mitsui Toatsu Chemicals, Inc., Japan
 SO U.S., 35 pp., Cont.-in-part of U.S. Ser. No. 987,960, abandoned.
 CODEN: USXXAM
 DT Patent
 LA English
 FAN.CNT 2

	PATENT NO. ----- -----	KIND ----	DATE -----	APPLICATION NO. -----	DATE
PI	US 5578419	A	19961126	US 1994-223605	199404 06
				<--	
	US 5789137	A	19980804	US 1996-653252	199605 24
				<--	
	US 5948597	A	19990907	US 1998-87845	199806 01
				<--	
	US 6306550	B1	20011023	US 1999-344350	199906 25
				<--	
PRAI	JP 1991-328474	A	19911212	<--	
	US 1992-987960	B2	19921211	<--	

US 1994-223605 A3 19940406 <--
 US 1996-653252 A3 19960524 <--
 US 1998-87845 A3 19980601 <--
 OS MARPAT 126:48352
 AB Dyes suitable for use in the fabrication of color filters are
 represented by D(AYn1)n2, where D represents a chromophoric
 (di)phenoxy- or (phenylthio)anthraquinone nucleus, A denotes a
 connecting group, Y is a photopolymerizable group having one of
 several specified structures, n1 is 1-10,000, and n2 is 1-10. Thus,
 1-amino-4-hydroxy-2-(p-tolyloxy)anthraquinone was condensed with N-
 (chloromethyl)-2-phenylmaleimide in C2H4Cl2 in the presence of ZnCl2
 to give a dye with λ_{max} 512 nm.
 IT 151605-29-7P
 (dyes for color filters and photosensitive resin compns. contg.
 them)
 RN 151605-29-7 HCA
 CN Copper, [[29H,31H-phthalocyanine-1,8,15,22-
 tetrayltetrakis(oxymethylene-4,1-phenylene)
 tetrabenzoato](2-)-N29,N30,N31,N32]-, (SP-4-1)- (9CI) (CA INDEX
 NAME)

PAGE 1-A





IT 151605-29-7P
(dyes for color filters and photosensitive resin compns. contg. them)

RE

- (1) Anon; EP 0098522 A2 HCA
- (2) Anon; EP 0168694 A1 HCA
- (3) Anon; EP 0300770 A2 HCA
- (4) Anon; EP 0359934 A1 HCA
- (5) Anon; EP 0371398 A2 HCA
- (6) Anon; GB 2038849 A HCA
- (7) Anon; US 3627472 A HCA
- (8) Anon; US 4132841 A HCA
- (9) Anon; US 4614521 A HCA
- (10) Anon; US 4808501 A
- (11) Anon; US 5212027 A

L25 ANSWER 7 OF 9 HCA COPYRIGHT 2009 ACS on STN

AN 120:41990 HCA [Full-text](#)

OREF 120:7549a,7552a

TI Dyes for color filters, photosensitive resist resin compositions containing the same, and color filters

IN Karasawa, Akio; Itoh, Hisato; Sugimoto, Kenichi

PA Mitsui Toatsu Chemicals, Inc., Japan

SO Eur. Pat. Appl., 38 pp.

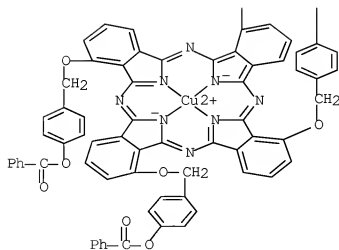
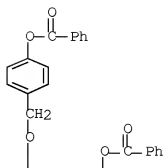
CODEN: EPXXDW

DT Patent

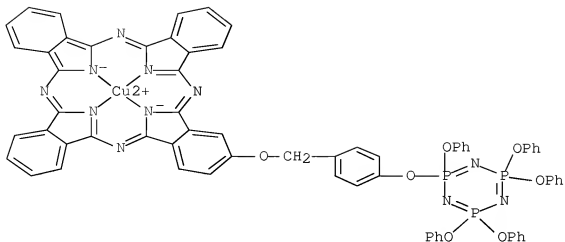
LA English

FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI	EP 546856	A2	19930616	EP 1992-311343	199212 11
				<--	
	EP 546856	A3	19940525		
	EP 546856	B1	20010822		
	R: DE, FR, GB, NL				
	JP 05271567	A	19931019	JP 1992-327842	199212 08
				<--	
	EP 832942	A2	19980401	EP 1997-118306	199212 11
				<--	
	EP 832942	A3	20000531		
	R: DE, FR, GB, NL				
PRAI	JP 1991-328474	A	19911212	<--	
	EP 1992-311343	A3	19921211	<--	
AB	Dyes suitable for use in the fabrication of color filters contain one or more photopolymerizable substituents which may preferably be represented by the following formula: D-(A-Yn1)n2 wherein D represents a chromophoric nucleus, A denotes a connecting group, Y means the photopolymerizable group, n1 is 1-10000, and n2 stands for an integer of 1-10. Also described are photosensitive resist resin compns. contg. the dyes as well as color filters fabricated by curing the photosensitive resist resin compns.				
IT	151605-29-7 (photopolymerizable dye)				
RN	151605-29-7 HCA				
CN	Copper, [[29H,31H-phthalocyanine-1,8,15,22-tetrayltetrakis(oxymethylene-4,1-phenylene) tetrabenzoato](2-)-N29,N30,N31,N32]-, (SP-4-1)- (9CI) (CA INDEX NAME)				

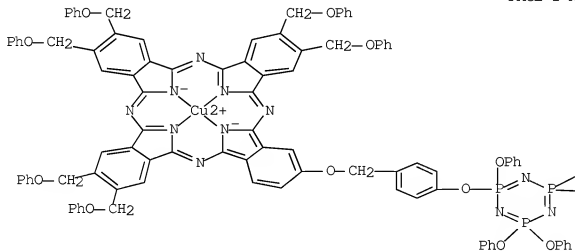


L25 ANSWER 8 OF 9 HCA COPYRIGHT 2009 ACS on STN
 AN 105:24734 HCA Full-text
 OREF 105:4175a,4178a
 TI Synthesis of polyphosphazenes bearing covalently linked copper
 phthalocyanine units
 AU Allcock, Harry R.; Neenan, Thomas X.
 CS Dep. Chem., Pennsylvania State Univ., University Park, PA, 16802,
 USA
 SO Macromolecules (1986), 19(6), 1495-501
 CODEN: MAMOBX; ISSN: 0024-9297
 DT Journal
 LA English
 AB Sol. poly(organophosphazenes) bearing covalently bound Cu
 phthalocyanine side groups were synthesized. The synthesis pathway
 involved the prepn. of a high-mol.-wt. poly[bis(aryloxy)phosphazene]
 in which 90% of the side groups were phenoxy and 10% were o-
 dicyanoaryl units. Condensation of this species with a large excess
 of phthalonitrile, 1,2-dimethyl-4,5-dicyanobenzene [36360-43-7], 1,2-
 dicyano-4,5-bis(phenoxy)methylbenzene, or 4,5-
 bis[(methoxyethoxy)methyl]-1,2-dicyanobenzene in DMF and in the
 presence of CuBr yielded open-chain polymers with phthalocyanine side
 groups covalently linked to the phosphazene chain. On the basis of
 UV/visible spectral data, the polymeric phthalocyanines did not
 aggregate in a variety of solvents. The synthesis of small-mol.,
 cyclic trimeric model analogs of these polymers was accomplished.
 The solubilities of these small-mol. cyclotriphosphazanyl
 phthalocyanines are much higher than those of the free
 phthalocyanines. The elec. conductivities of the iodine-doped
 trimeric and high-polymeric species, both as compressed pellets and
 as thin films, were in the range of 10^{-4} Ω^{-1} cm $^{-1}$ for the cyclic
 trimers and 10^{-5} - 10^{-8} Ω^{-1} cm $^{-1}$ for the high polymers.
 IT 101695-56-1P 101695-57-2P 101695-58-3P
 (prepn. of, as model for copper phthalocyanine-contg.
 poly(dichlorophosphazene))
 RN 101695-56-1 HCA
 CN Copper, [2,2,4,4,6,6-hexahydro-2,2,4,4,6-pentaphenoxy-6-[4-[(29H,31H-
 phthalocyanin-2-yloxy)methyl]phenoxy]-1,3,5,2,4,6-
 triazatriphosphorinato(2-)-N29,N30,N31,N32]-, (SP-4-2)- (9CI) (CA
 INDEX NAME)



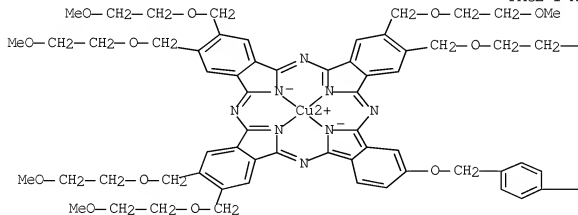
RN 101695-57-2 HCA
 CN Copper, [2-[4-[[[9,10,16,17,23,24-hexakis(phenoxy)methyl]-29H,31H-phthalocyanin-2-yl]oxy]methyl]phenoxy]-2,2,4,4,6,6-hexahydro-2,4,4,6,6-pentaphenoxy-1,3,5,2,4,6-triazatriphosphorinato(2-)-N29,N30,N31,N32]-, (SP-4-2)- (9CI) (CA INDEX NAME)

PAGE 1-A

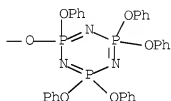




RN 101695-58-3 HCA
 CN Copper, [2-[4-[[[9,10,16,17,23,24-hexakis[(2-methoxyethoxy)methyl]-29H,31H-phthalocyanin-2-yl]oxy)methyl]phenoxy]-2,2,4,4,6,6-hexahydro-2,4,4,6,6-pentaphenoxy-1,3,5,2,4,6-triazatriphosphorinato(2-)-N29,N30,N31,N32]-, (SP-4-2)- (9CI) (CA INDEX NAME)



—OMe

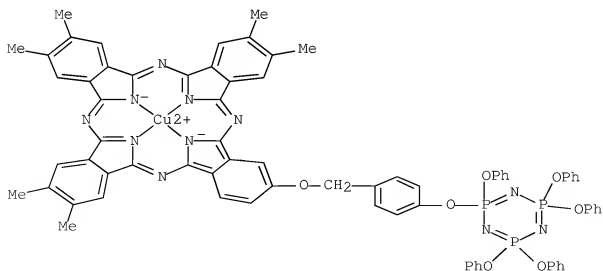


IT 101695-54-9P

(prepn. of, as model for copper phthalocyanine-contg.
polyphosphazenes)

RN 101695-54-9 HCA

CN Copper, [2-[4-[[(9,10,16,17,23,24-hexamethyl-29H,31H-phthalocyanin-2-yl)oxy]methyl]phenoxy]-2,2,4,4,6,6-hexahydro-2,4,4,6,6-pentaphenoxy-1,3,5,2,4,6-triazatriphosphorinato(2-)-N29,N30,N31,N32]-, (SP-4-2)-(9CI) (CA INDEX NAME)



IT 101695-56-1P 101695-57-2P 101695-58-3P
(prepn. of, as model for copper phthalocyanine-contg.
poly(dichlorophosphazene))

IT 101695-54-9P
(prepn. of, as model for copper phthalocyanine-contg.
polyphosphazenes)

L25 ANSWER 9 OF 9 HCA COPYRIGHT 2009 ACS on STN

AN 63:17298 HCA Full-text

OREF 63:3083g-h,3084a-c

TI Water-soluble dyes containing halopyrimidylloxymethyl groups

IN Ischer, Hans; Siegrist, Hans

PA Sandoz Ltd.

SO 20 pp.

DT Patent

LA Unavailable

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI	GB 990974		19650505	GB 1961-17477	196105 12

<--

DE 1218636 DE

PRAI CH 19600513 <--

GI For diagram(s), see printed CA Issue.

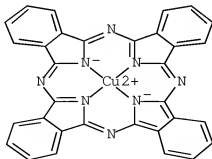
AB Water-sol. pyrimidine dyes of the general formula I, where Y is N:N, SO₂NH, CONH, or NH, Q is the radical of a water-sol. dye, Z is chloro- or dichloropyrimidinyl, and X is Me or Cl, were synthesized and dyed cotton and wool fibers with good fastness. For example, 18.3 parts 2,4,6-trichloropyrimidine (II) in 22 parts PhMe was added dropwise to 12.3 parts 3-H₂NC₆H₄CH₂OH (III) in 150 parts H₂O and 42 parts 30% NaOH at 2°. Stirring was continued at 0-3° for 10-15 hrs., then 35.5 parts 30% HCl was added. The resulting ppt. of 3-amino-1-(dichloropyrimidylloxymethyl)benzene (IV) was dried in vacuo at 35-40° and 13.5 parts was diazotized and coupled with 16.2 parts 1-(2',5'-dichlorophenyl)-3-methyl-5-pyrazolone-4'-sulfonic acid (V). After coupling, the pH was made acid with HCl and the resulting dye (VI), a yellow, water-sol. powder, was filtered. It dyed wool, silk, and cellulosic fibers greenish yellow shades with good fastness. VI was also prepd. by coupling diazotized III with V and then condensing the resulting dye with II. Similarly, other azo dyes (VII, Z = dichloropyrimidyl) were prepd. (RH, X, Y, and shade on cotton or wool given): 1,8,3,6-BzNH(HO)C₁₀H₄(SO₃H)₂, H, H, red; 1,3,6-

HOC10H5(SO3Na)2, H, H, orange-red; 1,4,6-HOC10H5(SO3Na)2(VIII), H, H, scarlet (a similar dye was prepd. using 2,4-dichloropyrimidine in place of II); VIII, H, Me, scarlet; VIII, Cl, H; red; 2,6,8-HOC10H5(SO3H)2, Me, H, orange. A turquoise dye was obtained by condensing Cu phthalocyaninetetrasulfonyl chloride with 1 mole IV at 20-75°, pH 5-5.5 and sapong. the remaining sulfonyl chloride groups. 1-Amino-4-(2,4,6-trimethylanilino)anthraquinone-2-sulfonic acid was treated with SO2Cl2 in ClSO3H at 50-5° and the product condensed with IV, yielding a brilliant blue dye. 2,4,8-H2NC10H5(SO3H)2 → 2,6-HOC10H6SO2NHC6H4CH2OH-3 (IX) was condensed with II, yielding a red dye. Also, III was condensed with 4-AcNHC6H4SO2Cl and the product deacetylated to give 4-H2NC6H4SO2NHC6H4CH2OH-3 which was diazotized and coupled with 1,3,6,8-HOC10H4(SO3Na)3 and then condensed with II, yielding a red dye. 4,3-Cl(H2N)C6H3CH2OH was prepd. by treating o-ClC6H4NO2 with (ClCH2)2O, hydrolyzing the 4,3-Cl(O2N)C6H3CH2OMe to 4,3-Cl(O2N)C6H3CH2OH and reducing the nitro group. 3- and 4-H2NC6H4CONHC6H4CH2OH were prepd. by acylating III with 3- or 4-O2NC6H4COCl and reducing. IX was prepd. by treating 2,6-PhSO3C10H6SO3Na with POCl3 at 100-20°, condensing the sulfonyl chloride with III and sapong. the benzenesulfonate group.

II 31277-81-3P, Copper, [trihydrogen
[[[α-(dichloropyrimidinyl)oxy]-m-
tolyl]sulfamoyl]phthalocyaninetrisulfonato(2-)]-
(prepn. of)

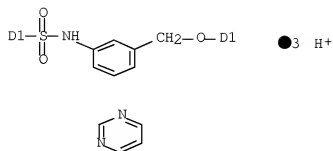
RN 31277-81-3 HCA
CN Cuprate(3-), [C-[[[3-
[[[dichloropyrimidinyl)oxy]methyl]phenyl]amino]sulfonyl]-29H,31H-
phthalocyanine-C,C-disulfonato(5-)-N29,N30,N31,N32]-, trihydrogen
(9CI) (CA INDEX NAME)

PAGE 1-A



3 [D1-SO3-]

2 (D1-C1)



IT 31277-81-3P, Copper, [trihydrogen
 [[α -(dichloropyrimidinyl)oxy]-m-
 tolyl]sulfamoyl]phthalocyaninetrisulfonato(2-)]-
 (prepn. of)

 (FORMULA 3)

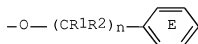
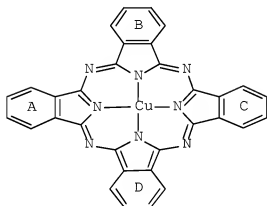
=> D L40 1-7 BIB ABS HITSTR HITIND RE

L40 ANSWER 1 OF 7 HCA COPYRIGHT 2009 ACS on STN
 AN 141:44857 HCA Full-text
 TI Photosensitive resin composition
 comprising halogen-free colorant
 IN Oka, Hidetaka; Adam, Jean-Marie
 PA Ciba Specialty Chemicals Holding Inc., Switz.
 SO PCT Int. Appl., 21 pp.
 CODEN: PIXXD2
 DT Patent
 LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI	WO 2004049070	A2	20040610	WO 2003-EP50849	200311 19
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	WO 2004049070	A3	20040722		
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	CN 1717627	A	20060104	CN 2003-80104325	200311 19
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US 20050282923	A1	20051222	US 2005-535373	<--	200505 19
MX 2005005682	A	20050726	MX 2005-5682	<--	200505 27
IN 2005CN01406	A	20070803	IN 2005-CN1406	<--	200506 24
PRAI EP 2002-406035	A	20021128	<--		
WO 2003-EP50849	W	20031119			
OS MARPAT 141:44857					
GI					



I

AB The present invention relates to a **photosensitive resin** compn. for **solder resists** comprising as a component (A) a green colorant of the formula I (rings A, B, C and D are substituted by hydroxy or by moiety; R, R2 = H, Cl-4-alkyl; n = 0-3; ring E = unsubstituted or

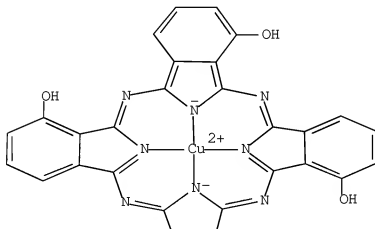
substituted by C1-6-alkyl, C1-6-alkoxy, hydroxy, NHCOR3, NHSO2, R4 or SO2NHR5; R3, R4, R5 = C1-4-alkyl; Ph); as a component (B) an alkali sol. oligomer or polymer reactive or unreactive; as a component (C) a polymerizable monomer; as a component (D) a photoinitiator; as a component (E) an epoxy compd.; and also, if desired, as a component (F) further additives. The photosensitive compn. can be used as solder resist, etching resist or plating resist in the manuf. of printed circuit boards. The inventive solder resist comprising a single green pigment that maintains qualities required as a green coloring material, such as clear hue, good weather- and heat resistance and that is satisfactory at the same time in the points of environmental pollution, has not been found yet in the present state of the art.

IT 20468-22-8 21707-33-5 29696-46-6

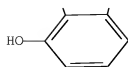
(photosensitive resin compn. comprising
halogen-free colorant)

RN 20468-22-8 HCA

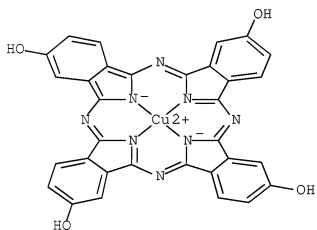
CN Copper, [29H,31H-phthalocyanine-1,8,15,22-tetrolato(2-)-
κN29,κN30,κN31,κN32]-, (SP-4-1)- (9CI) (CA
INDEX NAME)



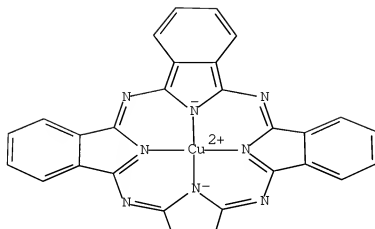
PAGE 1-A



RN 21707-33-5 HCA
 CN Copper, [29H,31H-phthalocyanine-2,9,16,23-tetrolato(2-)-
 κN29,κN30,κN31,κN32]-, (SP-4-1)- (9CI) (CA
 INDEX NAME)



RN 29696-46-6 HCA
 CN Copper, [29H,31H-phthalocyanine-C,C,C,C-tetrolato(2-)-
 κN29,κN30,κN31,κN32]- (9CI) (CA INDEX NAME)



4 (DI-OH)

IC ICM G03F007-027
 CC 74-5 (Radiation Chemistry, Photochemistry, and Photographic and
 Other Reprographic Processes)
 ST photoresist solder resist printed
 circuit board compn photosensitive resin
 IT Solder resists
 (photosensitive resin compn. comprising
 halogen-free colorant)
 IT 5495-84-1, Quantacure ITX 20468-22-8 21707-33-5
 29570-58-9, DPHA 29696-46-6 71868-10-5, Irgacure 907
 155575-69-2, GY 1180 227101-11-3 290821-67-9 667865-45-4

671791-90-5, EA-6340

(photosensitive resin compn. comprising
halogen-free colorant)

RE

- (1) Anon; US 20020136986 A1
- (2) Anon; US 5009982 A HCA
- (3) Anon; US 5789137 A HCA

L40 ANSWER 2 OF 7 HCA COPYRIGHT 2009 ACS on STN

AN 137:312357 HCA Full-text

TI Manufacture of sulfonyloxyalted phthalocyanine compounds with good
solvent solubility and **light sensitivity**

IN Oishi, Takao; Yashiro, Toru; Taniguchi, Masatoshi; Narizuka,
Toshiro; Aoi, Hironao

PA Ricoh Co., Ltd., Japan; Yamada Chemical Co., Ltd.

SO Jpn. Kokai Tokkyo Koho, 13 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	-----	----	-----	-----	
PI	JP 2002309119	A	20021023	JP 2001-118841	200104 17

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PRAI JP 2001-118841 20010417 <--

OS MARPAT 137:312357

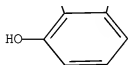
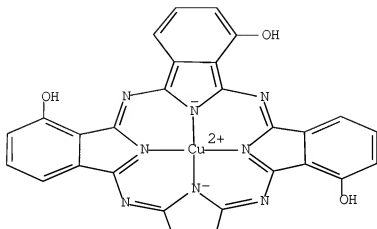
AB The title compds. useful for optical recording such as CD-R
application, are obtained from specific metal phthalocyanine compds.
bearing arenesulfonyloxyalted groups on the arom. rings. Thus,
adding 0.41 g a 60% oil suspension of NaH 0.41 to a mixt. of 0.75 g
 $\alpha,\alpha,\alpha,\alpha$ -tetrahydroxyvanadyl phthalocyanine and 10 mL dry THF, mixing
for 10 min at 40°, adding 2.52 g 4-(trifluoromethyl)benzenesulfonyl
chloride and mixing at 50-55° for 120 h gave a pigment.

IT 20468-22-8P

(intermediate; manuf. of sulfonyloxyalted phthalocyanine compds.
with good solvent soly. and **light sensitivity**
)

RN 20468-22-8 HCA

CN Copper, [29H,31H-phthalocyanine-1,8,15,22-tetrolato(2-)-
κN29,κN30,κN31,κN32]-, (SP-4-1)-(9CI) (CA
INDEX NAME)



- IC ICM C09B047-24
ICS B41M005-26; C07D487-22; G11B007-24
- CC 41-7 (Dyes, Organic Pigments, Fluorescent Brighteners, and Photographic Sensitizers)
Section cross-reference(s): 76
- IT Optical ROM disks
(manuf. of sulfonyloxyated phthalocyanine compds. with good solvent soly. and **light sensitivity**)
- IT Transition metal complexes
(phthalocyanine, arenesulfonyloxyated compds.; manuf. of sulfonyloxyated phthalocyanine compds. with good solvent soly. and **light sensitivity**)
- IT Metallophthalocyanines
(transition metal complexes, arenesulfonyloxyated compds.;

manuf. of sulfonyloxyated phthalocyanine compds. with good solvent soly. and **light sensitivity**)

IT 19056-23-6P, 3-Methoxyphthalonitrile **20468-22-8P**
 80345-84-2P 158621-02-4P 160988-54-5P 473254-09-0P
 473254-10-3P
 (intermediate; manuf. of sulfonyloxyated phthalocyanine compds. with good solvent soly. and **light sensitivity**)

IT 473253-97-3P 473253-98-4P 473254-00-1P 473254-01-2P
 473254-02-3P 473254-03-4P 473254-04-5P 473254-05-6P
 473254-06-7P 473254-07-8P 473254-08-9P
 (manuf. of sulfonyloxyated phthalocyanine compds. with good solvent soly. and **light sensitivity**)

IT 67-56-1, Methanol, reactions 98-09-9, Benzenesulfonyl chloride
 98-59-9, p-Toluenesulfonyl chloride 98-60-2,
 4-Chlorobenzenesulfonyl chloride 773-64-8,
 2,4,6-Trimethylbenzenesulfonyl chloride 2991-42-6,
 4-(Trifluoromethyl)benzenesulfonyl chloride 6553-96-4,
 2,4,6-Triisopropylbenzenesulfonyl chloride 7447-39-4, Copper
 chloride, reactions 7646-85-7, Zinc chloride, reactions
 7718-98-1, Vanadium trichloride 15084-51-2,
 4-tert-Butylbenzenesulfonyl chloride 51762-67-5,
 3-Nitrophthalonitrile 244763-85-7 473254-11-4
 (manuf. of sulfonyloxyated phthalocyanine compds. with good solvent soly. and **light sensitivity**)

L40 ANSWER 3 OF 7 HCA COPYRIGHT 2009 ACS on STN

AN 133:244985 HCA Full-text

TI Molecular orientation-photoconductivity relationship study of phthalocyanine polymer-oriented thin films

AU Chen, Hong-Zheng; Wang, Mang; Yang, Shi-Lin

CS Department of Polymer Science and Engineering, Zhejiang University, Hangzhou, 310027, Peop. Rep. China

SO Journal of Applied Polymer Science (2000), 77(11), 2331-2339

CODEN: JAPNAB; ISSN: 0021-8995

PB John Wiley & Sons, Inc.

DT Journal

LA English

AB The mol. orientation-photocond. relationships of several kinds of phthalocyanine polymer (PPC)-oriented thin films have been studied in double-layered photoreceptor devices, where the charge-generation layers (CGLs) are phthalocyanine polymer-oriented thin films and the charge-transportation layers (CTLs) are composed of hole transporting materials of tetra-Ph benzidine or hydrazone. The oriented thin films contg. PPC dispersed in polyvinyl difluoride (PVDF) were prepd. by the elec. field orientation. The results showed that the

photosensitivities of the phthalocyanine polymer (PPCs)-oriented thin films were higher than those of the unoriented PPCs thin films, and varied with their mol. structures and the mol. stacking in the films. This was thought to be due to the mol. orientation effect, which was demonstrated by the analyses of the polarized fluorescence, DSC, FTIR reflection absorption spectroscopy (FTIR-RAS), and angle-dependent XPS.

IT 292832-89-4P 292832-90-7P

(mol. orientation-photocond. relationship study of phthalocyanine polyvinyl difluoride polymer-oriented thin films)

RN 292832-89-4 HCA

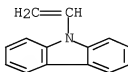
CN Copper, [15-(9-ethenyl-9H-carbazolyl)-8,22-dinitro-29H,31H-phthalocyanin-9-olato(2-)- κ N29, κ N30, κ N31, κ N32]-, polymer with acetonitrile (9CI) (CA INDEX NAME)

CM 1

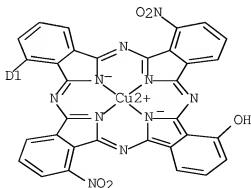
CRN 176050-69-4

CMF C46 H23 Cu N11 O5

CCI CCS, IDS



PAGE 1-A



PAGE 2-A

CM 2

CRN 75-05-8

CMF C2 H3 N



RN 292832-90-7 HCA

CN Copper, [15-(9-ethenyl-9H-carbazolyl)-8,22-dinitro-29H,31H-phthalocyanin-9-olato(2-)- κ N29, κ N30, κ N31, κ N32]-, polymer with 4-ethenylpyridine (9CI) (CA INDEX NAME)

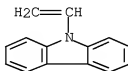
CM 1

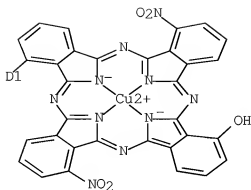
CRN 176050-69-4

CMF C46 H23 Cu N11 O5

CCI CCS, IDS

PAGE 1-A





CM 2

CRN 100-43-6

CMF C7 H7 N



- CC 74-3 (Radiation Chemistry, Photochemistry, and Photographic and Other Reprographic Processes)
Section cross-reference(s): 76
- IT 9003-05-8DP, reaction products with copper
dinitrophthalocyaninediazonium salt 25067-59-8P,
Polyvinylcarbazole 65670-15-7DP, reaction products with diazotized
copper diaminodinitrophthalocyanine 146166-28-1DP, diazotized,
reaction products with polyacrylamide and
poly(acrylamide-vinylcarbazole) 292832-89-4P
292832-90-7P
(mol. orientation-photocond. relationship study of phthalocyanine
polyvinyl difluoride polymer-oriented thin films)
- RE
- (1) Advincula, R; Polym Adv Technol 1996, V7, P571 HCA
 - (2) Anon; Jpn Kokai Tokkyl Koho JP 60,201,345
 - (3) Beyer, D; Thin Solid Films 1995, V271, P73 HCA

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- (11) Chen, H; Thin Solid Films accepted
- (12) Cresswell, J; Thin Solid Films 1992, V210/211, P216
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- (29) Shi, M; J Mater Res 1998, V13, P3550 HCA
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- (31) Singer, K; J Opt Soc Am 1987, VB4, P968
- (32) Wang, M; J Photochem Photobiol 1995, V88, P183 HCA
- (33) Whitesell, J; Mol Cryst Liq Cryst 1994, V240, P251 HCA
- (34) Wieringa, R; Macromolecules 1996, V29, P3032 HCA
- (35) William, C; J Am Chem Soc 1959, V81, P4795
- (36) Wohrle, D; Makromol Chem 1980, V181, P2127
- (37) Wohrle, D; Polym Bull 1986, V15, P193
- (38) Xue, G; Appl Spectrosc 1987, V41, P264 HCA

L40 ANSWER 4 OF 7 HCA COPYRIGHT 2009 ACS on STN

AN 126:265228 HCA Full-text

OREF 126:51347a

TI Aqueous dye-terminated urethane- or acrylic polymeric pigment-dispersing agent for aqueous printing inks or paints, and pigment dispersion composition therefrom

IN Tadashi, Itabashi; Takashi, Kamikubo; Katsuhiko, Sawamura

PA Toyo Ink Manufacturing Co., Ltd., Japan

SO Eur. Pat. Appl., 30 pp.

CODEN: EPXXDW

DT Patent
LA English
FAN.CNT 1

	PATENT NO. -----	KIND ----	DATE -----	APPLICATION NO. -----	DATE
PI	EP 763580	A2	19970319	EP 1996-114489	199609 10
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	EP 763580	A3	20010228		
	EP 763580	B1	20030813		
	R: DE, GB				
	JP 09077986	A	19970325	JP 1995-232167	199509 11
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	JP 09077988	A	19970325	JP 1995-232169	199509 11
				<--	
	JP 3397014	B2	20030414		
	JP 09077991	A	19970325	JP 1995-238162	199509 18
				<--	
	JP 3397017	B2	20030414		
	JP 09077993	A	19970325	JP 1995-238164	199509 18
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	JP 09077995	A	19970325	JP 1995-238167	199509 18
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	JP 09077985	A	19970325	JP 1995-238168	199509 18
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	US 5854323	A	19981229	US 1996-712452	199609 11
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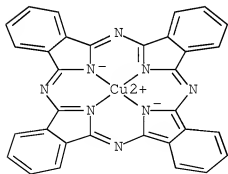
PRAI	JP 1995-232167	A	19950911	<--
	JP 1995-232169	A	19950911	<--
	JP 1995-238162	A	19950918	<--
	JP 1995-238164	A	19950918	<--
	JP 1995-238167	A	19950918	<--
	JP 1995-238168	A	19950918	<--
	JP 1995-238169	A	19950918	<--

AB Aq. pigment-dispersion compn. for inks or paints, having improved dispersibility of pigment and adaptability, comprises a pigment-dispersing agent contg. an aq. linear urethane or acrylic polymer terminated with an org. dye, anthraquinone or acridone, a pigment and, optionally, an aq. resin. Thus, phthalocyanine-terminated polyurethane pigment dispersing agent (prepd. from dimethylolpropionic acid, polypropylene glycol, isophorone diisocyanate, isophorone diamine and copper phthalocyanine carboxylic acid) 1, pigment 5, water sol. acrylic resin (acrylic acid-2-hydroxyethyl methacrylate-Et methacrylate-Me methacrylate-vinyl acetate copolymer) 13 and melamine resin (Cymel 303) 6 parts, were blended to give a paint which was applied onto a PET film and baked at 140° for 30 min showing gloss (20° angel) 77.5%, compared to 34.0 for a sample without pigment dispersing agent.

IT 55946-69-5DP, reaction product with isocyanate-terminated urethane polymer
(pigment-dispersing agent; aq. dye-terminated urethane- or acrylic polymeric pigment-dispersing agent for aq. printing inks or paints)

RN 55946-69-5 HCA

CN Copper, [29H,31H-phthalocyaninolato(2-)-
κN29,κN30,κN31,κN32]- (9CI) (CA INDEX NAME)



D1-OH

IC ICM C09D017-00
ICS C09B067-00
CC 42-5 (Coatings, Inks, and Related Products)
IT 84-65-1DP, Anthraquinone, derivs., reaction product with amine-terminated urethane or acrylic polymer 117-78-2DP, 2-Anthraquinone carboxylic acid, reaction product with amine-terminated urethane polymer 117-79-3DP, 2-Amino-anthraquinone, reaction product with NCO-terminated urethane polymer 147-14-8DP, derivs., reaction product with amine- or OH-terminated urethane or amine-terminated acrylic polymer 1047-16-1DP, Quinacridone, derivs., reaction product with amine-terminated urethane or acrylic polymer 2381-23-9DP, 2-Anthraquinonesulfonyl chloride, reaction product with amine-terminated urethane or acrylic polymer 6470-87-7DP, 2-Anthraquinonecarbonyl chloride, reaction product with amine-terminated urethane or acrylic polymer 27918-14-5DP, 2-Amino-acridone, reaction product with NCO-terminated urethane polymer 55946-69-5DP, reaction product with isocyanate-terminated urethane polymer 59617-74-2DP, reaction product with isocyanate-terminated urethane polymer 67952-88-9DP, Dimethylolpropionic acid-isophorone diisocyanate-polypropylene glycol copolymer, terminated with org. dye, anthraquinone or acridone 188679-52-9DP, reaction product with diazotized urethane polymer 188679-53-0DP, reaction product with amine-terminated urethane or acrylic polymer 188679-54-1DP, terminated with org. dye, anthraquinone or acridone 188738-62-7DP, reaction product with amine-terminated urethane polymer 188738-63-8DP, reaction product with amine-terminated urethane polymer 188738-64-9DP, reaction product with amine-terminated acrylic polymer (pigment-dispersing agent; aq. dye-terminated urethane- or acrylic polymeric pigment-dispersing agent for aq. printing inks or paints)

L40 ANSWER 5 OF 7 HCA COPYRIGHT 2009 ACS on STN

AN 124:179010 HCA Full-text

OREF 124:33157a,33160a

TI Coated pigments, their manufacture, and colorant compositions containing them

IN Ide, Yuusaku

PA Toyo Ink Manufacturing Co., Ltd., Japan

SO Eur. Pat. Appl., 19 pp.

CODEN: EPXXDW

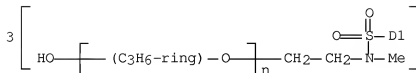
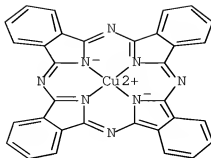
DT Patent

LA English

FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI	----- EP 677556	A2	19951018	EP 1995-302439	199504 12
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	EP 677556	A3	19970226		
	R: DE, FR, GB				
	JP 07331101	A	19951219	JP 1995-89118	199504 14
				<--	
	JP 3740706	B2	20060201		
	US 5795376	A	19980818	US 1997-924650	199709 05
				<--	
PRAI	JP 1994-76922	A	19940415	<--	
	US 1995-421319	B1	19950413	<--	
AB	A coated pigment can be prepd. by: (a) prepg. a mixt. of water and a substantially water-insol. org. surface modifier; (b) introducing the mixt., under pressure, into a conduit having a diam.-decreased portion and a turning portion, providing accelerated flow through the diam.-decreased portion and mutual collision of the accelerated mixt. or collision of the accelerated mixt. against a wall of the conduit, thereby obtaining a homogeneous aq. dispersion of the surface modifier in water; (c) mixing the aq. dispersion with a pigment, thereby providing a pigment coated with the surface modifier; and (d) isolating the coated pigment. The coated pigments are useful in coatings, inks, and plastics. Thus, a 1:3 rosin-propylene oxide adduct was dispersed in water by passing their mixt. for 3 cycles through a Nanomizer at 80° and 1000 kg/cm ² , and 10 parts of the resulting dispersion was mixed with 100 parts (solids) Cu phthalocyanine dispersion to give a coated pigment easily dispersible to form an offset ink with av. particle size <5 µm.				
IT	175447-79-7	(pigment coatings by mech. dispersion of)			
RN	175447-79-7	HCA			
CN	Poly[oxy(methyl-1,2-ethanediyl)], α-hydro-ω-hydroxy-, ether with [N,N',N''-tris(2-hydroxyethyl)-N,N',N''-trimethyl-29H,31H-phthalocyanine-C,C,C-trisulfonamido(2-)-N29,N30,N31,N32]copper (3:1) (9CI) (CA INDEX NAME)				



IC ICM C09B067-08
 ICS C09C003-00; C09D017-00; B01F003-00
 ICA C09D011-02
 CC 42-6 (Coatings, Inks, and Related Products)
 Section cross-reference(s): 37
 IT 57-11-4, Octadecanoic acid, uses 100-42-5D, Styrene, polymers with
 acrylic monomers 107-64-2, Dimethyldistearylammonium chloride
 111-20-6, Decanedioic acid, uses 124-22-1, Laurylamine 301-02-0,
 Oleamide 9003-07-0, Polypropylene 9003-53-6 12698-87-2,
 Rosinamine D 25087-26-7, Poly(methacrylic acid) 25233-30-1,
 Polyaniline 27924-99-8, Poly(12-hydroxystearic acid) 42739-64-0
 79621-12-8, Tamarol 361 86753-81-3, Solisperse 17000 93971-95-0
 111213-92-4, AT (ester gum) 113834-89-2, Byk 160 127595-95-3
 172259-63-1, 2-Naphthalenecarboxylic acid,
 3-hydroxy-4-[(4-methyl-2-sulfohenyl)azo]-,
 didodecyldimethylammonium salt (1:1) 172259-65-3 174205-17-5
 175447-79-7 175447-80-0
 (pigment coatings by mech. dispersion of)

L40 ANSWER 6 OF 7 HCA COPYRIGHT 2009 ACS on STN
 AN 121:46560 HCA Full-text

OREF 121:8235a,8238a
 TI Carrier composition for electrostatographic developer
 IN Hara, Takeshi; Arikawa, Akira; Ishikawa, Yoshibumi
 PA Toyo Ink Mfg Co, Japan
 SO Jpn. Kokai Tokkyo Koho, 5 pp.
 CODEN: JKXXAF

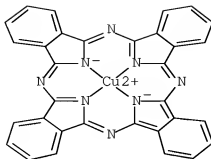
DT Patent
 LA Japanese

FAN.CNT 1

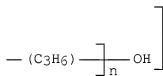
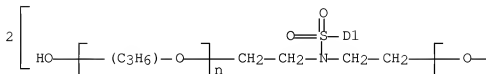
	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI	JP 05257328	A	19931008	JP 1992-89531	199203 13

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JP 2903850 B2 19990614
 PRAI JP 1992-89531 19920313 <--
 AB The title carrier compn. comprises a magnetic material and a phthalocyanine deriv. Pc(ANR'(CH2CHR2O)mH)n [Pc = phthalocyanine residue; A = CH2, CO, SO2, CH2NHC(=O)CH2; R' = H, lower alkyl, (CH2CHR2O)k; R2 = H, Me; k, m = 1 - 30; n = 1 - 4] dispersed in a binder resin. This invention prevents carrier adhesion to the non-image areas.
 IT 156029-43-5
 (dispersing agent, electrophotog. carrier from)
 RN 156029-43-5 HCA
 CN Poly[oxy(methyl-1,2-ethanediyl)], α -hydro- ω -hydroxy-, ether with [N,N,N',N'-tetrakis(2-hydroxymethylethyl)-29H,31H-phthalocyanine-C,C-disulfonamidato(2-)-N29,N30,N31,N32]copper (4:1) (9CI) (CA INDEX NAME)



4 (D1-Me)



IC ICM G03G009-107
 ICS C09B067-50
 CC 74-3 (Radiation Chemistry, Photochemistry, and Photographic and
 Other Reprographic Processes)
 IT 156029-43-5

(dispersing agent, electrophotog. carrier from)

L40 ANSWER 7 OF 7 HCA COPYRIGHT 2009 ACS on STN

AN 91:58852 HCA Full-text

OREF 91:9551a,9554a

TI Photocurable, colored coating compositions

IN Takezawa, Nobuo; Kawabata, Keizo; Abe, Yoshio; Hosoda, Toru;
Yoshida, Akio; Saikatsu, Hiroaki; Kanno, Toshiyuki

PA Dainichiseika Color and Chemicals Mfg. Co., Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 8 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI	JP 54026887	A	19790228	JP 1977-92204	

197708

02

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JP 58023401 B 19830514

PRAI JP 1977-92204 A 19770802 <--

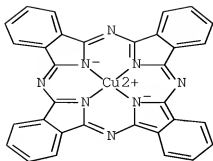
AB The title compns. contained photocurable, film-forming polymers with functional groups and org. colorants with reactive groups. For example, a compn. from glycidyl acrylate-Me methacrylate copolymer acrylate [65608-20-0] 70, trimethylolpropane triacrylate 30, 1,6-hexanediol diacrylate 10, 1:3 Cu tris(chloromethyl)phthalocyanine-N-methylpropanediamine reaction product 2, and benzoin Et ether 2 parts was coated on Al to 30 μ -thick and irradiated with a high-pressure UV lamp (80 W/cm) for 10 s to give a coating with better adhesion, solvent resistance, flexibility, and hardness than that using Cu phthalocyanine.

IT 70848-98-5

(photoreactive dyes, for photocurable
coatings for aluminum)

RN 70848-98-5 HCA

CN Copper, [C-chloro-C,C-dimethyl-29H,31H-phthalocyanine-C,C-diolato(2-)-N29,N30,N31,N32]- (9CI) (CA INDEX NAME)



D1-C1

2 (D1-OH)

2 (D1-Me)

- IC C08F020-34; C08F002-44; C07F002-48; C08F020-32
- CC 42-10 (Coatings, Inks, and Related Products)
- IT Tung oil
 - (coatings contg., contg. reactive dyes, **photocurable**, for aluminum)
- IT Urethane polymers, uses and miscellaneous
 - (coatings, **photocurable**, colored)
- IT Coloring
 - (of **photocurable** coatings, with reactive dyes, for aluminum)
- IT Coating materials
 - (**photocurable**, colored, epoxy resins and polyurethanes and polyesters, for aluminum)
- IT 7429-90-5, uses and miscellaneous
 - (coatings for, **photocured**, colored)
- IT 106-91-2D, reaction products with eleostearic acid and TDI
 - 13296-76-9D, reaction products with glycidyl methacrylate and TDI
 - (coatings, contg. tung oil, **photocurable**, contg. reactive dyes, for aluminum)
- IT 3524-68-3D, reaction products with TDI, **polymer** with

styrene 26471-62-5D, reaction products with pentaerythritol triacrylate, polymer with styrene 37341-86-9
50658-60-1 61970-25-0 65608-20-0

(coatings, photocurable, contg. reactive dyes, for aluminum)

IT 81-78-7 124-09-4D, reaction products with dye chloromethyl derivs.
124-30-1D, reaction products with dye chloromethyl derivs.
141-43-5D, reaction products with dye chloromethyl derivs.
4471-41-4 6291-84-5D, reaction products with dye chloromethyl derivs.
27121-79-5D, reaction products with amines 70848-62-3D, reaction products with amines 70848-98-5 70858-16-1D, reaction products with amines 70858-17-2D, reaction products with amines
(photoreactive dyes, for photocurable coatings for aluminum)

=> D L42 1-33 TI

L42 ANSWER 1 OF 33 HCA COPYRIGHT 2009 ACS on STN

TI Phthalocyanine dyes, their production and their use in jet-printing inks

L42 ANSWER 2 OF 33 HCA COPYRIGHT 2009 ACS on STN

TI Color ink sets for ink-jet printing with good light fastness and high resolution

L42 ANSWER 3 OF 33 HCA COPYRIGHT 2009 ACS on STN

TI Thermal degradation kinetics of metal(II) 1,8,15,22-tetranitro and tetrahydroxy phthalocyanines

L42 ANSWER 4 OF 33 HCA COPYRIGHT 2009 ACS on STN

TI Synthesis and properties of hydroxy-and-nitro-substituted phthalocyanine complexes

L42 ANSWER 5 OF 33 HCA COPYRIGHT 2009 ACS on STN

TI New "molecular metals" based on symmetrically tetrasubstituted copper phthalocyanine complexes

L42 ANSWER 6 OF 33 HCA COPYRIGHT 2009 ACS on STN

TI Application of diazotization reaction for synthesis of substituted phthalocyanines

L42 ANSWER 7 OF 33 HCA COPYRIGHT 2009 ACS on STN

TI Synthesis and structural studies on 1,8,15,22-tetrahydroxyphthalocyanines of Co(II), Ni(II), Cu(II) and Zn(II)

L42 ANSWER 8 OF 33 HCA COPYRIGHT 2009 ACS on STN
TI Automotive coatings with good pigment dispersibility

L42 ANSWER 9 OF 33 HCA COPYRIGHT 2009 ACS on STN
TI Synthesis and photoconductivity study of VKCuPc monomer and its homopolymer

L42 ANSWER 10 OF 33 HCA COPYRIGHT 2009 ACS on STN
TI Substituted phthalocyanines and optical recording media containing them

L42 ANSWER 11 OF 33 HCA COPYRIGHT 2009 ACS on STN
TI Urbach tail in optical absorption for Langmuir-Blodgett films of amphiphilic phthalocyanine molecules

L42 ANSWER 12 OF 33 HCA COPYRIGHT 2009 ACS on STN
TI Toners for electrostatic image development containing phthalocynine amine derivative

L42 ANSWER 13 OF 33 HCA COPYRIGHT 2009 ACS on STN
TI A polymer with the mesomorphic order of liquid crystalline phthalocyanines

L42 ANSWER 14 OF 33 HCA COPYRIGHT 2009 ACS on STN
TI Effect of modifying additives on the surface energy of copper phthalocyanine

L42 ANSWER 15 OF 33 HCA COPYRIGHT 2009 ACS on STN
TI Effect of the modification of a copper phthalocyanine surface on its adsorption properties

L42 ANSWER 16 OF 33 HCA COPYRIGHT 2009 ACS on STN
TI Phthalocyanine derivatives

L42 ANSWER 17 OF 33 HCA COPYRIGHT 2009 ACS on STN
TI Hydroxypolyphthalocyanines, new semiconductors with interesting properties

L42 ANSWER 18 OF 33 HCA COPYRIGHT 2009 ACS on STN
TI Solvent-stable copper phthalocyanines

L42 ANSWER 19 OF 33 HCA COPYRIGHT 2009 ACS on STN
TI Dark conductivity of some phthalocyanines

L42 ANSWER 20 OF 33 HCA COPYRIGHT 2009 ACS on STN
TI Cumene oxidation in presence of cupric octahydroxyphthalocyanine and

its derivatives

- L42 ANSWER 21 OF 33 HCA COPYRIGHT 2009 ACS on STN
TI Water-soluble fiber-reactive dyes
- L42 ANSWER 22 OF 33 HCA COPYRIGHT 2009 ACS on STN
TI Synthesis and properties of nitro, amino and hydroxy derivatives of metal phthalocyanines from ω -chlorosubstituted 1,2-dimethylbenzene containing a nitro group in a nucleus
- L42 ANSWER 23 OF 33 HCA COPYRIGHT 2009 ACS on STN
TI Synthesis and study of the electrical properties of metallic complexes of octahydroxyanthraquinonecyanine
- L42 ANSWER 24 OF 33 HCA COPYRIGHT 2009 ACS on STN
TI Preparation of highly metallized salts of oxy derivatives of copper phthalocyanine
- L42 ANSWER 25 OF 33 HCA COPYRIGHT 2009 ACS on STN
TI Substituted phthalocyanine dye developers
- L42 ANSWER 26 OF 33 HCA COPYRIGHT 2009 ACS on STN
TI Naphthalene derivatives. V. Synthesis of 2,3-naphthalocyanine
- L42 ANSWER 27 OF 33 HCA COPYRIGHT 2009 ACS on STN
TI Synthesis and properties of hydroxy derivatives of copper phthalocyanine
- L42 ANSWER 28 OF 33 HCA COPYRIGHT 2009 ACS on STN
TI Preparation of metal complexes of anthraquinone derivatives
- L42 ANSWER 29 OF 33 HCA COPYRIGHT 2009 ACS on STN
TI Preparation of the tetrahydroxyacetic acid deriv. of copper phthalocyanine
- L42 ANSWER 30 OF 33 HCA COPYRIGHT 2009 ACS on STN
TI Copper complex of tetrahydroxyphthalocyanine
- L42 ANSWER 31 OF 33 HCA COPYRIGHT 2009 ACS on STN
TI 2,5-Bis[2-(5-phenyloxazolyl)]furan
- L42 ANSWER 32 OF 33 HCA COPYRIGHT 2009 ACS on STN
TI Phthalocyanine dyes
- L42 ANSWER 33 OF 33 HCA COPYRIGHT 2009 ACS on STN
TI Water-soluble phthalocyanine dyes

=> D L42 8,10 BIB ABS HITSTR HITRN RE

L42 ANSWER 8 OF 33 HCA COPYRIGHT 2009 ACS on STN

AN 127:19682 HCA Full-text

OREF 127:3917a,3920a

TI Automotive coatings with good pigment dispersibility

IN Itabashi, Masashi; Kamikubo, Takashi; Sawamura, Katsuhiko

PA Toyo Ink Mfg. Co., Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 6 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI	JP 09078011	A	19970325	JP 1995-238166	19950918

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PRAI JP 1995-238166 19950918 <--

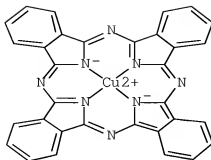
AB The coatings contain nonaq. coating varnishes and compns. contg. 100 parts pigments and 0.5-100 parts anthraquinone derivs., acridone derivs., or Q(XNR1YR2)n (I; Q = org. colorant residue, anthraquinone residue, acridone residue; X = SO2, CO, CH2, CH2NHC(=O)CH2; R1 = H, alkyl, YR2; R2 = H, Cl-4 lower alkyl; Y = propylene oxide polymer or ethylene oxide-propylene oxide copolymer with av. mol. wt. 400-10,000; n = 1-3). Thus, Cu chloromethylphthalocyanine 150, a N,N-bis(polyoxypropylene)amine 468, and MeOH 2000 parts were mixed at 65° and filtrated under reduced pressure to give a paste contg. 504 parts I. A coating comprising Phthalkyd 133-60 30, U-Van 20SE60 10, C.I. Pigment Blue 15:1 10, I 14, and xylene 50 parts showed good fluidity. A steel plate, which was coated with a primer and sanded, was spray-coated with the coating and baked at 140° to give a test piece with 60° gloss 79.8%.

IT 189400-04-2

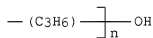
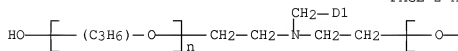
(automotive coatings contg. anthraquinone or acridone derivs. and showing good pigment dispersibility)

RN 189400-04-2 HCA

CN Poly[oxy(methyl-1,2-ethanediyl)], α -hydro- ω -hydroxy-, ether with [[[29H,31H-phthalocyaninyl- κ N29, κ N30, κ N31, κ N32)methylenenitrilo]bis[met hylethanolato]](2-)]copper (2:1) (9CI) (CA INDEX NAME)



2 (D1-Me)



IT 189400-04-2

(automotive coatings contg. anthraquinone or acridone derivs. and showing good pigment dispersibility)

L42 ANSWER 10 OF 33 HCA COPYRIGHT 2009 ACS on STN

AN 124:178875 HCA Full-text

OREF 124:33141a

TI Substituted phthalocyanines and optical recording media containing them

IN McKeown, Neil Bruce; Treacher, Kevin Edward; Clarkson, Guy James
 PA Secretary of State for Defence, UK
 SO PCT Int. Appl., 80 pp.
 CODEN: PIXXD2

DT Patent
 LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI	WO 9526381	A1	19951005	WO 1995-GB647	199503 23

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W: GB, JP, KR, US

RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT,
 SE

EP 751977	A1	19970108	EP 1995-912334	199503 23
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EP 751977	B1	19990428		
R: CH, DE, FR, GB, IT, LI, NL				
GB 2302095	A	19970108	GB 1996-19102	199503 23

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GB 2302095	B	19981216		
JP 09511001	T	19971104	JP 1995-525030	199503 23

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US 5792860	A	19980811	US 1996-700405	199609 25
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PRAI GB 1994-5970	A	19940325	<--
WO 1995-GB647	W	19950323	<--

OS MARPAT 124:178875

AB Phthalocyanines MPc are described, where M is a (substituted) metal atom or Si, or 2H, substituted on the periphery with ≥ 1 group O[CHY(CHY)k]p[O(CHY)lOm(CHY)n]qOrX [each Y = H, C1-3 alkyl, halogen, CN; k, m, r = 0, 1; l, n, p = 1-10; q = 1-20; X = H, Me, cholesteryl, COR, CO2R, CR1R2R3; R = alkyl; R1-R3 = H, alkyl, alkoxy, (un)substituted Ph], the remaining of the 16 substitutable positions bearing H, alkyl, alkoxy, alkenyl, cholesteryl, CPh3, or (un)substituted Ph or PhO. These compds. are useful in a broad range

of applications, including electrooptical devices, and for use in optical recording media.

IT 172599-60-9P

(substituted phthalocyanines and optical recording media contg. them)

RN 172599-60-9 HCA

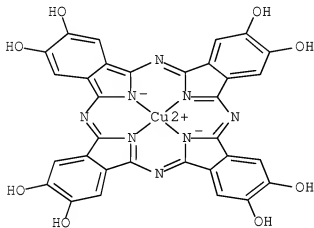
CN Poly(oxy-1,2-ethanediyl), α -methyl-~~o~~-hydroxy-, ether with (SP-4-1)-[29H,31H-phthalocyanine-2,3,9,10,16,17,23,24-octolato(2-)-N29,N30,N31,N32]copper (9CI) (CA INDEX NAME)

CM 1

CRN 123934-46-3

CMF C32 H16 Cu N8 O8

CCI CCS

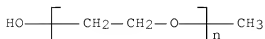


CM 2

CRN 9004-74-4

CMF (C2 H4 O)_n C H4 O

CCI PMS



IT 172599-60-9P

(substituted phthalocyanines and optical recording media contg.
them)

RE

- (1) Anon; EP 0232427 A1 HCA
- (2) Anon; EP 0433220 A2 HCA
- (3) Anon; EP 0519423 A2 HCA
- (4) Anon; EP 0558449 A1 HCA
- (5) Anon; GB 2200650 A HCA